

Application No. 09/937,146

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BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will become more fully understood from the detailed description given hereinbelow and the accompanying drawings which are given by way of illustration only, and thus are not limitative of the present invention and wherein:

Figure 1 shows parametric maps of CBF for pig no. 4;

Figure 2 shows plots of regional CBF values with their standard deviations for individual pigs;

Figure 3 shows the corresponding plot for repeated PET measurement of CBF with ^{15}O butanol;

Figure 4 shows CBV maps obtained with MR and PET, respectively;

Figure 5 plots average absolute MR versus PET values of CBV for corresponding slices under normo- and hypercapnia in 6 pigs;

Figure 6 shows parametric CBF maps determined by PET and NMR, respectively;

Figure 7 shows MR versus PET plots of regional CBF values along with their standard deviations for the six volunteers;

Figure 8 shows the conventional MRI as well as the PET CBF maps from the volunteer 6 and what may reflect a methodological problem of the MR technique;

Figure 9 shows how flow estimates become increasingly underestimated as the arrival delay of the tracer at a brain region increases, in both PET and MR CBF measurements;

Figure 10 shows that the vasculature was modeled a major, feeding artery in series with 20 small vessels in parallel;